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Total Pages: 2

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DATABASE MANAGEMENT SYSTEM Paper: CSE-201 (E)

Time: Three Hours] [Maximum Marks: 100

Note: Attempt *five* questions in all, selecting at least *one* question from each unit. All questions carry equal marks.

UNIT-I

- 1. What is E-R Diagram? Explain the working of an E-R model with the help of an example of Hospital system taking your own assumptions.
- 2. How does 3-tier architecture differ from 2-tier architecture of DBMS. Explain in detail.

UNIT-II

- 3. Define Relational Algebra. By taking suitable example explain select, join, projection and division operation.
- 4. What are Hierarchical and Network database models? Discuss the applications of database models to database design.

UNIT-III

5. What is Normalization? Explain by giving definition and with examples 1NF, 2NF, 3NF & BCNF. Discuss how can you decompose a 3NF relation to BCNF by taking suitable example.

6. What is Relational Calculus? Give an overview of introduction to 4GL. Also explain SQL & QBE.

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- 7. Explain each of the following:
- (a) a Lock Based Protocols. Speak shall it send
- 8. What are Distributed databases? Explain various security issues in a DBMS.

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